

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1401E/294/01

Reporting Date: 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

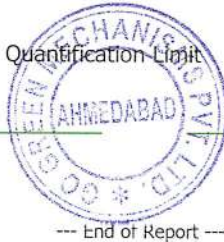
Lab ID:	Lab/PN/1401E/294/01	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C/ Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.56	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.48	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.13	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.46	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1401E/294/02

Reporting Date: 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/02	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Main Gate	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C/ Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.16	µg/m3	GGMP/L/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	19.17	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.99	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.02	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.54	µg/m3	GGMP/L/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.16	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	69.22	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Gyanvati Shukla



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1401E/294/03

Reporting Date: 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/03	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Sixth (6th) Level	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C/ Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.08	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.45	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.17	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	72.09	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1401E/294/04

Reporting Date: 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/04	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Hospital	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C/ Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.33	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.02	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.82	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	64.60	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Shailesh Pandey

Sampling Date:

25/08/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1401E/2 94/05A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	65	-
2	Lab/PN/1401E/2 94/05B	Near Main Gate	Day Time	dB(A)Leq	IS 4758	67	-
3	Lab/PN/1401E/2 94/05C	Near sixth Level	Day Time	dB(A)Leq	IS 4758	62	-
4	Lab/PN/1401E/2 94/05D	Near Hospital	Day Time	dB(A)Leq	IS 4758	61	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/06

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



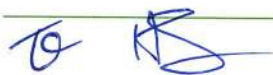
SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/06	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Water Tank Under Ground Source	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	240.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	88.98	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	86.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.33	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.18	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.53	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	494.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	11.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	318.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

Page No : 1/2

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M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/06	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Water Tank Under Ground Source	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.3	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	6.33	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

to *HS*

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Tantan kumar & Dr. Haragobinda Srichandan



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P. Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/07

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/07	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	28/08/2025
Sample Description:	Admin Office R.O Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	219.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	64.93	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	13.00	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	14.58	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.67	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	8.63	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	297.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	222.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/07

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/07	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	28/08/2025
Sample Description:	Admin Office R.O Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.44	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.60	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/08

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/08	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	At Hospital Borewell	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	410.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	92.58	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	80.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.52	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	47.87	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	58.58	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	710.0000	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	428.0000	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/08	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	At Hospital Borewell	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	7.32	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

T. Kumar

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P. B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/09

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/09	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	28/08/2025
Sample Description:	Officer Colony R.O Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	128.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	40.08	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	55.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	10.69	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.59	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	19.26	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	279.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	144.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/09	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	28/08/2025
Sample Description:	Officer Colony R.O Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.58	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.15	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/10

Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/10	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Borewell Near Siding	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	329.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	96.19	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	111.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.03	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	48.60	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.75	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	62.99	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	672.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	440.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

T. K. Srichandan

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P. B. Patel

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Reporting Date : 04/09/2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/10	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Borewell Near Siding	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.18	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.15	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/11

M/s Moil Limited

Balaghat Manganese Mines L1=172.398 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 04/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1401E/294/11	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Waste Water	Analysis Start Date:	28/08/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	03/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.51	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	122.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	12	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	6.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	3.7	mg/L	IS 3025- Part 44	-
7	Manganese	0.79	mg/L	GGMPL/SOP/W&WW/46	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Gyanvati Shukla



--- End of Report ---


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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/1401E/294/12

Reporting Date: 04.09.2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.3984 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1401E/294/12	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Mine office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.90	m/s	GGML/SOP/MP/01
2	Relative Humidity	88.0	%	GGML/SOP/MP/01
3	Rainfall	0.0	mm	GGML/SOP/MP/01
4	Temperature	25.0	°C	GGML/SOP/MP/01



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Gyanvati Shukla



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Payal Patel

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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1401E/294/13

Reporting Date: 04.09.2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.3984 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

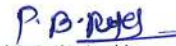
Lab ID	: Lab/PN/1401E/294/13	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Main Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.90	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	88.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01
4	Temperature	25.0	°C	GGMP/L/SOP/MP/01



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Gyanvati Shukla

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/14

Reporting Date: 04.09.2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.3984 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1401E/294/14	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Sixth (6th) Level		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.90	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	25.0	°C	GGMPL/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1401E/294/15

Reporting Date: 04.09.2025

M/s Moil Limited

Balaghat Manganese Mines L1=172.3984 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

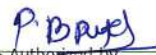
Lab ID	: Lab/PN/1401E/294/15	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.90	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	25.0	°C	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1402E/295/01

Reporting Date: 05/09/2025

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1402E/295/01	Sampling Start Date:	25-08-2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26-08-2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Adarsh Colony	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-88%	Total Sampling hours:	
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.33	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.23	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.77	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1402E/295/02

Reporting Date: 05/09/2025

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

25/08/2025

Sample By Shailesh pandey

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1402E/295/02	Adarsh Colony	Day Time	dB(A)Leq	IS 4758	59.7	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1402E/295/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073



SAMPLE DETAILS

Lab ID:	Lab/PN/1402E/295/03	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Adarsh Colony Water Supply Borewell Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	400.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	102.60	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	100.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.84	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	48.60	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.20	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	60.78	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	720.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	456.00	mg/L	APHA 24th Edn 2340 C	200	600

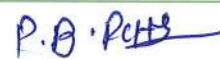
AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan





Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1402E/295/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1402E/295/03	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Adarsh Colony Water Supply Borewell Water	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	7.64	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1402E/295/04

Reporting Date: 05.09.2025

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

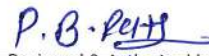
Lab ID	: Lab/PN/1402E/295/04	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Adarsh Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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Payal Patel

---End of Report---

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1403E/296/01

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/01	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Awalajare Village	Analysis start- End Date:	28/08/2025-02/09/2025
Env. Cond.-Sampling:	Temp -25°C/Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.18	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.55	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.12	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.87	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	66.36	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1403E/296/02

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/02	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Shivani Camp	Analysis start- End Date:	28/08/2025-02/09/2025
Env. Cond.-Sampling:	Temp -25°C/Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.75	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.77	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.52	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.87	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	62.46	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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--- End of Report ---



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1403E/296/03

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/03	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Katangtolla Ward No.3	Analysis start- End Date:	28/08/2025-02/09/2025
Env. Cond.-Sampling:	Temp -25°C/Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.51	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.71	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.09	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.88	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1403E/296/04

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/04	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Bharweli Village	Analysis start- End Date:	28/08/2025-02/09/2025
Env. Cond.-Sampling:	Temp -25°C/Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

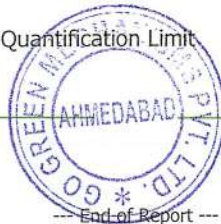
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.50	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.36	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	65.53	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Gyanvati Shukla




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/05

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh pandey

Sampling Date: 25/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1403E/2 96/05A	Awalajare Village	Day Time	dB(A)Leq	IS 4758	66	-
2	Lab/PN/1403E/2 96/05B	Shivani Camp	Day Time	dB(A)Leq	IS 4758	67	-
3	Lab/PN/1403E/2 96/05C	Katangtolla Ward No.3	Day Time	dB(A)Leq	IS 4758	62	-
4	Lab/PN/1403E/2 96/05D	Bharweli Village	Day Time	dB(A)Leq	IS 4758	66	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/06

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/1403E/296/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Awalajare Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 02/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	390.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	96.19	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	115.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	48.60	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.01	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	50.85	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	724.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	5.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	440.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

[Signature]

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



[Signature]

Reviewed & Authorized by
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/06

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

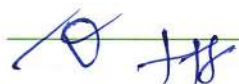
Lab ID: Lab/PN/1403E/296/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Awalajare Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 02/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

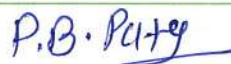
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.08	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	8.32	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/07

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/07	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Shivani Camp Borewell	Analysis End Date:	02/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

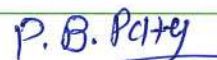
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	398.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	103.40	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	122.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.95	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	51.52	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.09	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.56	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	748.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	470.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/07

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/07	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Shivani Camp Borewell	Analysis End Date:	02/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.79	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	7.28	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

[Signature]

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/08

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

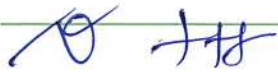
SAMPLE DETAILS

Lab ID:	Lab/PN/1403E/296/08	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	Katangtolla Ward No.3 Borewell	Analysis End Date:	02/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

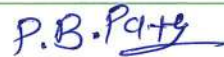
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	395.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	97.80	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	118.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.11	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	50.06	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.12	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.36	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	760.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	450.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/08

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

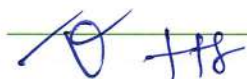
Lab ID: Lab/PN/1403E/296/08
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Katangtolla Ward No.3 Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 02/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

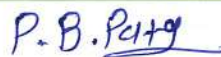
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.84	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	8.45	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

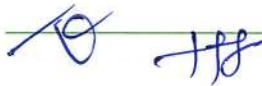
Lab ID: Lab/PN/1403E/296/09
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Tap Water Near Ram Mandir
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 02/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	215.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	63.33	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.72	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.93	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	10.73	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	314.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	240.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/1403E/296/09
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Tap Water Near Ram Mandir
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 02/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.69	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.12	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/10

Reporting Date: 03.09.2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1403E/296/10	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Awalajare Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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Payal Patel

---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/11

Reporting Date: 03.09.2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1403E/296/11	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Shivani Camp		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/12

Reporting Date: 03.09.2025

M/s Moil Limited


Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.
Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

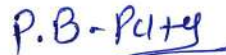
Lab ID	: Lab/PN/1403E/296/12	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Katangtolla Ward No.3		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1403E/296/13

Reporting Date: 03.09.2025

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1403E/296/13	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Bharweli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1404E/297/01

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102
(M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1404E/297/01	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Mechanical Room	Analysis start- End Date:	28/08/2025-02/09/2025
Env. Cond.-Sampling:	Temp -25°C/Humidity-80%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.58	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.74	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.84	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.68	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1404E/297/02

Reporting Date: 03/09/2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102
(M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By

Shailesh pandey

Sampling Date:

25/08/2025

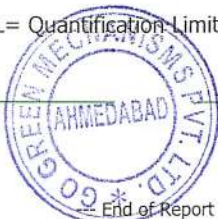
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1404E/297/02	Near Mechanical Room	Day Time	dB(A)Leq	IS 4758	68	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1404E/297/03

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102
(M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1404E/297/03	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	GW 132 KV Pump House	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	110.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	24.44	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	32.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.94	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	9.47	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.37	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	11.83	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	202.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	100.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



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Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102
(M.P)



SAMPLE DETAILS

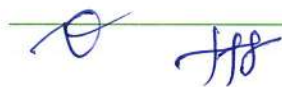
Lab ID: Lab/PN/1404E/297/03
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: GW 132 KV Pump House
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.94	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

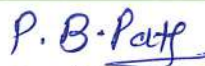
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Report Number: GGMPL/PN/1404E/297/04

Reporting Date : 03/09/2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102
(M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1404E/297/04	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Waste Water	Analysis Start Date:	28/08/2025
Sample Description:	Sine Pond Overflow Water	Analysis End Date:	02/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	140.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	12.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	3.1	mg/L	IS 3025- Part 44	-
7	Manganese	0.61	mg/L	GGMPL/SOP/W&WW/46	-

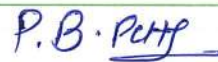
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Report Number: GGMPL/PN/1404E/297/05

Reporting Date: 03.09.2025

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1404E/297/05	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Mechanical Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	80.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01


Reviewed & Authorized by
Gyanvati Shukla




Reviewed & Authorized by
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1405E/298/01

Reporting Date: 05/09/2025

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1405E/298/01	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.44	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.32	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.31	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1405E/298/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/1405E/298/03
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: GW Near Office Side Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	210.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.93	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.93	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	13.60	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	8.82	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	294.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	218.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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Report Number: GGMPL/PN/1405E/298/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1405E/298/03
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: GW Near Office Side Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 26/08/2025
Sample Receipt Date: 28/08/2025
Analysis Start Date: 28/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.08	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1405E/298/04

Reporting Date: 05.09.2025

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat
481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1405E/298/04	Sampling Start Date	: 25.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.08.2025
Sample Location	: Near Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.9	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla




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---End of Report---

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1406E/299/01

Reporting Date: 05/09/2025

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.
Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1406E/299/01	Sampling Start Date:	25/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/08/2025
Sample Description:	Near Pump House	Analysis start- End Date:	28/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp-25°C/ Humidity-88%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.83	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.75	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.56	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1406E/299/02

Reporting Date: 05/09/2025

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.
Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 25/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1406E/299/02	Nr Pump House	Day Time	dB(A)Leq	IS 4758	68.5	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1406E/299/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.
Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1406E/299/03	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	GW ferro Manganese Plant Open Dugwell	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	119.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.48	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	38.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.50	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.67	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	241.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	168.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Report Number: GGMPL/PN/1406E/299/03

Reporting Date : 05/09/2025

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.
Balaghat 481102 (M.P)



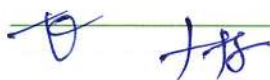
SAMPLE DETAILS

Lab ID:	Lab/PN/1406E/299/03	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Ground Water	Analysis Start Date:	28/08/2025
Sample Description:	GW ferro Manganese Plant Open Dugwell	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.04	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1406E/299/04

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.
Balaghat 481102 (M.P)

Reporting Date : 05/09/2025




SAMPLE DETAILS

Lab ID:	Lab/PN/1406E/299/04	Sampling Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/08/2025
Sample Type:	Waste Water	Analysis Start Date:	28/08/2025
Sample Description:	ETP Outlet	Analysis End Date:	03/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.13	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	52.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	14	mg/L	IS 3025- Part 44	-
7	Manganese	0.56	mg/L	GGMPL/SOP/W&WW/46	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Gyanvati Shukla




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1406E/299/05

Reporting Date: 05-09-2025

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1406E/299/05	Sampling Start Date	: 25-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28-08-2025
Sample Location	: Near Pump House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.90	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	88.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	25.0	°C	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1420E/301/01

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/01	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand Lease Pump House Upstream	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.61	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.71	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.01	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.97	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	69.44	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1420E/301/02

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/02	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand Lease Pump House Downstream	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.70	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.49	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.20	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.93	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/02	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand Lease Pump House Downstream	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

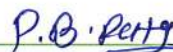
Sr.No	Parameters	Results	Unit	Test Method	Norms
12	Particulate Matter (PM10)	63.55	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/03	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	500m away From Shiv Mandir	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.32	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	23.20	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.89	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	59.10	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/04	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Balaghat MC Pump House	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.78	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	23.20	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.56	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	62.09	µg/m3	IS 5182- Part 23	

Norms as per National Ambient Air Quality Standards.

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/05

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 26/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1420E/3 01/05A	Kanki Sand Lease Pump House UpStream	Day Time	dB(A)Leq	IS 4758	60	-
2	Lab/PN/1420E/3 01/05B	Kanki Sand Lease Pump House DownStream	Day Time	dB(A)Leq	IS 4758	59	-
3	Lab/PN/1420E/3 01/05C	500m away From Shiv Mandir	Day Time	dB(A)Leq	IS 4758	59	-
4	Lab/PN/1420E/3 01/05D	Balaghat MC Pump House	Day Time	dB(A)Leq	IS 4758	58	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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Gyanvati Shukla



--- End of Report ---


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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1420E/301/06

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Pump House Upstream	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	248.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	48.09	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	55.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	1.02	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	35.23	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.53	-	IS 3025- Part 11	-
9	Sulphate	28.68	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	430.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/06

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Pump House Upstream	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Total Hardness as CaCO ₃	260.00	mg/L	APHA 24th Edn 2340 C	-
13	Turbidity	0.6	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	5.34	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	26	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/07

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Pump House Down stream	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	236.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	60.92	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	60.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.84	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	26.24	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.50	-	IS 3025- Part 11	-
9	Sulphate	27.08	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	448.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




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Report Number: GGMPL/PN/1420E/301/07

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)

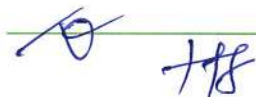


SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Pump House Down stream	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Total Hardness as CaCO ₃	260.00	mg/L	APHA 24th Edn 2340 C	-
13	Turbidity	0.7	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	5.95	mg/L	APHA 24th Edn 4500 NO ₃ B	-
17	Total coliform	46	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	17	MPN/100ml	APHA 9221G 24th Edition	-

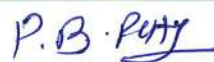
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/08

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)





TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/08	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Balaghat MC Pump House	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	250.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	55.71	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	63.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	1.08	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	29.40	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.56	-	IS 3025- Part 11	-
9	Sulphate	29.99	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	450.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	260.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/08	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Balaghat MC Pump House	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.3	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	6.78	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	32	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	14	MPN/100ml	APHA 9221G 24th Edition	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/09

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



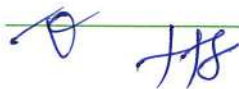
SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/09	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Ground Water	Analysis Start Date:	29/08/2025
Sample Description:	G.W Borewell water Near Sand Lease	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

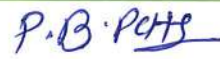
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	240.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.93	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	122.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.22	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	38.39	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.89	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	550.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	320.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan Kumar & Dr. Haragohinda Srichandan

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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/09

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1420E/301/09	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Ground Water	Analysis Start Date:	29/08/2025
Sample Description:	G.W Borewell water Near Sand Lease	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.9	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	7.16	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/10

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1420E/301/10	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand Lease Pump House Upstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/11

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)

SAMPLE DETAILS

Lab ID	: Lab/PN/1420E/301/11	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand Lease Pump House Downstream		



Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1420E/301/12

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1420E/301/12	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: 500m away From Shiv Mandir		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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Report Number: GGMPL/PN/1420E/301/13

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1420E/301/13	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Balaghat MC Pump House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1421E/302/01

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/01	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand River Bank	Analysis start- End Date:	29/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.61	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.55	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	69.29	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1421E/302/02

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

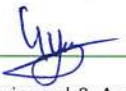
SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/02	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand 500m From River Bank	Analysis start- End Date:	29/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.21	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.74	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.43	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1421E/302/03

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/03	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Garra Village	Analysis start- End Date:	29/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.36	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.58	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.29	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1421E/302/04

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/04	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Majapur Village	Analysis start- End Date:	29/08/2025-03/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.57	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	61.38	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Gyanvati Shukla



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/05

Reporting Date: 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

26/08/2025

Sample By Shailesh pandey

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1421E/3 02/05A	Kanki Sand River Bank	Day Time	dB(A)Leq	IS 4758	59	-
2	Lab/PN/1421E/3 02/05B	Kanki Sand 500m From River Bank	Day Time	dB(A)Leq	IS 4758	58	-
3	Lab/PN/1421E/3 02/05C	Garra Village	Day Time	dB(A)Leq	IS 4758	62	-
4	Lab/PN/1421E/3 02/05D	Majapur Village	Day Time	dB(A)Leq	IS 4758	63	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/06

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand River Bank	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	26.45	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	56.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.78	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	22.84	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.52	-	IS 3025- Part 11	-
9	Sulphate	24.77	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	356.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	22.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	160.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit




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Tantan kumar & Dr. Haragohinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/06

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand River Bank	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	8.00	NTU	APHA 24th Edn 2130 B	
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	5.44	mg/L	APHA 24th Edn 4500 NO3 B	
17	Total coliform	34	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	14	MPN/100ml	APHA 9221G 24th Edition	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/07

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand 500m From River Bank	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	190.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	28.06	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	64.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.81	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.56	-	IS 3025- Part 11	-
9	Sulphate	25.77	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	360.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	32.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	170.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



[Signature]

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/07

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



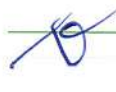
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand 500m From River Bank	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	5.0	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	6.04	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	7.8	MPN/100ml	APHA 9221G 24th Edition	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/08

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

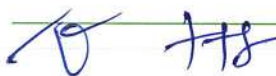
Lab ID: Lab/PN/1421E/302/08
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Garra Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 27/08/2025
Sample Receipt Date: 29/08/2025
Analysis Start Date: 29/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

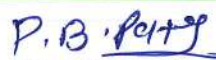
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	14.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.48	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.17	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	7.92	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	270.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	186.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/08

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

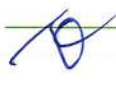

Lab ID: Lab/PN/1421E/302/08
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Garra Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 27/08/2025
Sample Receipt Date: 29/08/2025
Analysis Start Date: 29/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.66	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

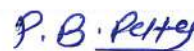
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/09

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/1421E/302/09
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Majapar Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 27/08/2025
Sample Receipt Date: 29/08/2025
Analysis Start Date: 29/08/2025
Analysis End Date: 03/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	140.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	41.68	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.94	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.18	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.85	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	284.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	168.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



[Signature]

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/09

Reporting Date : 05/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073



SAMPLE DETAILS

Lab ID:	Lab/PN/1421E/302/09	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Ground Water	Analysis Start Date:	29/08/2025
Sample Description:	Majapar Village Borewell	Analysis End Date:	03/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.04	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.03	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/10

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1421E/302/10	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/11

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat (M.P)



SAMPLE DETAILS


Lab ID	: Lab/PN/1421E/302/11	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand 500m From River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1421E/302/12

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1421E/302/12	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Garra Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1421E/302/13

Reporting Date: 05.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1421E/302/13	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Majapar Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1422E/303/01

Reporting Date: 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/01	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand Lease Upstream	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.47	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.10	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.89	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	65.76	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1422E/303/02

Reporting Date: 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/02	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Kanki Sand Lease Downstream	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.28	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.66	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.66	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.13	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.94	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.52	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1422E/303/03

Reporting Date: 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/03	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Near Pump House Balaghat Water Supply	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.86	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.52	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.20	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.03	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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Gyanvati Shukla



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1422E/303/04

Reporting Date: 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/04	Sampling Start Date:	26/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	27/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	29/08/2025
Sample Description:	Near Kanki Village	Analysis start- End Date:	29/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-74%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.75	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.65	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.54	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	65.91	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit


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Gyanvati Shukla




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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/05

Reporting Date: 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 26/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1422E/3 03/05A	Kanki Sand Lease Up Stream	Day Time	dB(A)Leq	IS 4758	60	-
2	Lab/PN/1422E/3 03/05B	Kanki Sand Lease Down Stream	Day Time	dB(A)Leq	IS 4758	61	-
3	Lab/PN/1422E/3 03/05C	Near Pump House Balaghat Woder Supply	Day Time	dB(A)Leq	IS 4758	63	-
4	Lab/PN/1422E/3 03/05D	Near Kanki Village	Day Time	dB(A)Leq	IS 4758	64	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/06

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Upstream	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	180.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	39.68	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	52.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.80	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	29.40	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.23	-	IS 3025- Part 11	-
9	Sulphate	29.09	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	348.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	220.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/06

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)

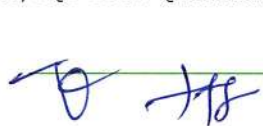


SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/06	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Upstream	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.8	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	6.11	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	7.8	MPN/100ml	APHA 9221G 24th Edition	-


NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/07

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)

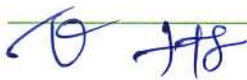


SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Downstream	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	190.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	49.29	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	60.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.84	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	18.71	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.42	-	IS 3025- Part 11	-
9	Sulphate	28.08	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	364.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	200.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/07

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/07	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Kanki Sand Lease River Downstream	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	5.36	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	49	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	17	MPN/100ml	APHA 9221G 24th Edition	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Tantankumar *Dr. Haragobinda*

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



P.B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/08

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID: Lab/PN/1422E/303/08
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Kanki Village Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 27/08/2025
Sample Receipt Date: 29/08/2025
Analysis Start Date: 29/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

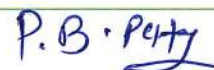
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	110.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	28.01	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.44	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.06	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	170.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/08

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/08	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Ground Water	Analysis Start Date:	29/08/2025
Sample Description:	Kanki Village Borewell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.8	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	6.08	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/09

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

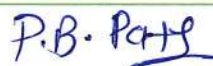
Lab ID:	Lab/PN/1422E/303/09	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Moil Water Supply Pump House	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	52.10	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	55.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.94	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	26.49	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.43	-	IS 3025- Part 11	-
9	Sulphate	28.08	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	364.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	239.00	mg/L	APHA 24th Edn 2340 C	-

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Report Number: GGMPL/PN/1422E/303/09

Reporting Date : 06/09/2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/1422E/303/09	Sampling Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	29/08/2025
Sample Type:	Surface Water	Analysis Start Date:	29/08/2025
Sample Description:	S.W Moil Water Supply Pump House	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.5	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	6.33	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	21	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	7.8	MPN/100ml	APHA 9221G 24th Edition	-

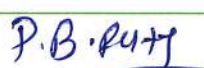
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/10

Reporting Date: 06.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1422E/303/10	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand Lease Upstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/11

Reporting Date: 06.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1422E/303/11	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Kanki Sand Lease Downstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/12

Reporting Date: 06.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/1422E/303/12	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Pump House Balaghat Water Supply		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1422E/303/13

Reporting Date: 06.09.2025

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat
Dist. Balaghat 481102 (M.P)



SAMPLE DETAILS

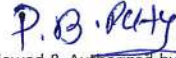
Lab ID	: Lab/PN/1422E/303/13	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Kanki Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	74.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	4.4	m/s	GGMPL/SOP/MP/01



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